

MISCELLANEOUS PHENOMENA.

(1) *Zoological*.—*Grasshoppers* were reported at Austin, Texas, in the air, October 7th; at Nashville, 23d; Denver, on 7th, flying to the southward. *Wild Geese*, at Lower Brulé Agency, Dakota, on the 1st and 7th; Fort Gibson, Indian Territory, flying south, on 9th; Wilsonville, Ala., flying south, 11th, 15th and 17th; Southington, Conn., flying south, 30th; at Rockford, Iowa, 1st; Afton, Iowa, 4th, 8th, 10th and 23d; Independence, Iowa, 7th; Fort Madison, Iowa, 9th; Holton, Kansas, 28th; Burlingame, Kansas, 6th; Leroy, Kansas, 23d and 25th; Atchison, Kansas, 29th and 30th; Fall River, Mass., 6th; Waltham, Mass., going southwest, on 30th; Emerson, Neb., south, on 9th; Carson City, Nev., south, 23d; Contoocookville, N. H., 30th; Auburn, N. H., 26th; Depauville, N. Y., going southwest, on 12th and southeast, 13th; Kensico, N. Y., southwest, from 25th to 31st, inclusive; Farmingdale, N. Y., southwest, 6th and 31st; South Hartford, N. Y., south, 18th; Attaway Hill, N. C., south, 11th; Portland, Me., south, 23d; Franklin, Penn., south, 12th; Prospect Hill, Va., on the 19th; Embarrass, Wis., south, 4th, 5th and 8th, and Utica, Wis., south, 4th. *Wild Ducks* were observed going west at Wood's Hole, Mass., on the 6th; going south at Lower Brulé Agency, Dakota, 1st and 2d; at Fort Madison, Iowa, on the 9th, accompanied by brants; and on the 15th, south, North Palermo, N. Y. *Cranes* were reported going south at Holton, Kansas, on 4th; Baxter's Springs, Kansas, 29th and 30th. *Swallows* disappeared at Las Vegas, N. M., on 1st; and from Clarksville, Tenn., on the 30th. *Sparrows* left West Charlotte, Vt., on the 5th. *Millets* were seen flying south in enormous quantities at Baxter's Springs, Kansas, on the 22d. *Katydid*s were heard last at Leroy, Kansas, on 22d; at Wappinger's Falls, N. Y., 22d; Benettsville, Ky., 29th. *Black Birds* at Las Vegas, N. M., disappeared, 18th. *Blue Birds* last heard at Fort Madison, Iowa, 23d; last seen at Contoocookville, N. H., 23d. *Snapping Mackerel*, (blue-fish,) moving north at Cape May, on 24th; and immense schools of same high up in Delaware Bay, on 27th.

(2) *Prairie Fires* were reported at Lower Brulé Agency, D. T., to the north and east, from 22d to 28th inclusive; near Holton, Kansas, 23d; Baxter's Springs, Kansas, during the month; Ellinwood, Kansas, 14, to the north and west, and extensive fires in all directions from the 25th to 22d, and also fires 24th, 27th and 29th; at De Soto, Neb., 16th; north of Richmond, Neb., 24th; at Wytheville, Va., *Mountain Fires*, 22d, 23d, 24th and 26th.

(3) *Meteors* were reported at Newport, R. I., on 13th and 20th; Jacksonville, Fla., 5th, 9th and 23d; St. Marks, Fla., 25th; Detroit, Mich., 20th; Linden, Ill., 22d and 31st; Abington, Ill., 15th; Rockford, Iowa, 20th; Afton, Iowa, 7th; Ellinwood, Kansas, 8th.

(4) *Polar Bands*, Newport, R. I., 21st; Norfolk, Va., 22d; Buffalo, N. Y., 19th; Iowa City, 18th and 23d; Fayette, Miss., 14th; Wytheville, Va., 7th, 8th, 10th, 17th, 22d and 24th.

Earthquakes were reported at Memphis and Cairo, slight shocks, 7th; at Purdy, McNary county, Tenn., 27th, 9 P. M., duration from 5 to 30 seconds.

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